

# Sarcosine, N-cyclopropylcarbonyl-, tetradecyl ester

Inchi:	InChI=1S/C21H39NO3/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-25-20(23)18-22(2)21(24)19-
InchiKey:	KJZNPOSEIIHTIY-UHFFFAOYSA-N
Formula:	C21H39NO3
SMILES:	CCCCCCCCCCCCCOC(=O)CN(C)C(=O)C1CC1
Mol. weight [g/mol]:	353.54

## Physical Properties

Property code	Value	Unit	Source
gf	-65.37	kJ/mol	Joback Method
hf	-693.82	kJ/mol	Joback Method
hfus	55.69	kJ/mol	Joback Method
hvap	80.20	kJ/mol	Joback Method
log10ws	-5.47		Crippen Method
logp	5.099		Crippen Method
mvol	314.880	ml/mol	McGowan Method
pc	1113.34	kPa	Joback Method
rinpol	2677.00		NIST Webbook
rinpol	2677.00		NIST Webbook
tb	829.22	K	Joback Method
tc	1018.05	K	Joback Method
tf	498.93	K	Joback Method
vc	1.216	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1026.13	J/mol×K	829.22	Joback Method
cpg	1045.03	J/mol×K	860.69	Joback Method
cpg	1062.89	J/mol×K	892.16	Joback Method
cpg	1079.78	J/mol×K	923.63	Joback Method
cpg	1095.75	J/mol×K	955.10	Joback Method
cpg	1110.85	J/mol×K	986.57	Joback Method
cpg	1125.15	J/mol×K	1018.05	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U321197&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321197&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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